

#634 Moonlight

Boot pattern (sole)  
and other papers out of Log # 634



**CITIZENS' BANK OF LOUISIANA.**

*New Orleans,*



*8th Sept 1857*

*No. 9040*

Pay this my **SECOND**

*Check: FIRST unpaid to the order of Elisha Taber.*  
*Two hundred & Fifty Dollars*

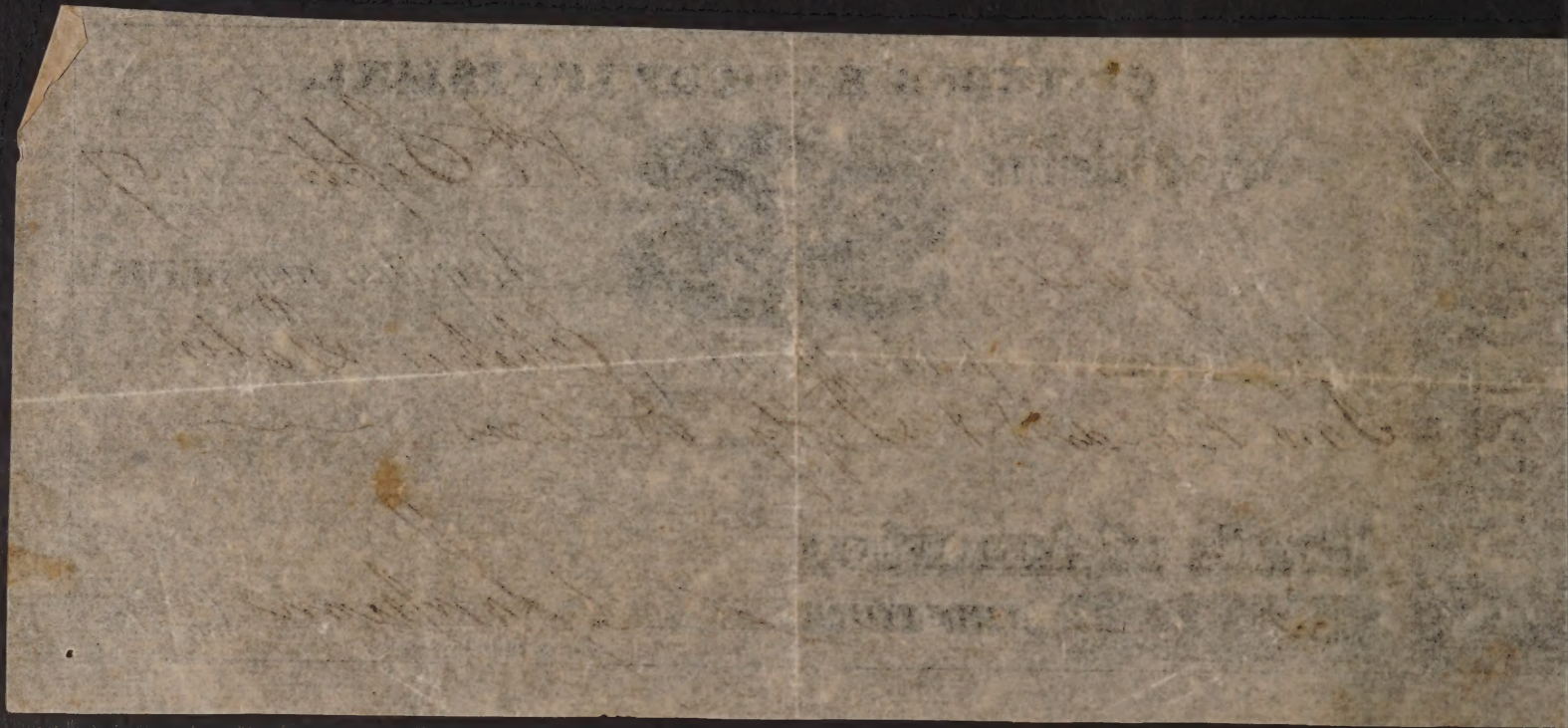
*For* amount of his State, County and Town Taxes for the year 1857 after deduction of

**Bank of America**

**\$250 - NEW-YORK.**

*Wm. L. Brown* Cashier.  
Bowlen, Wright, Hatch & Edgott, New-Orleans.

**DUPLICATE**



2440  
146  
22,94

\$ 22,94

Fairhaven, Aug 28<sup>th</sup> 1877



Thomas W Gaber

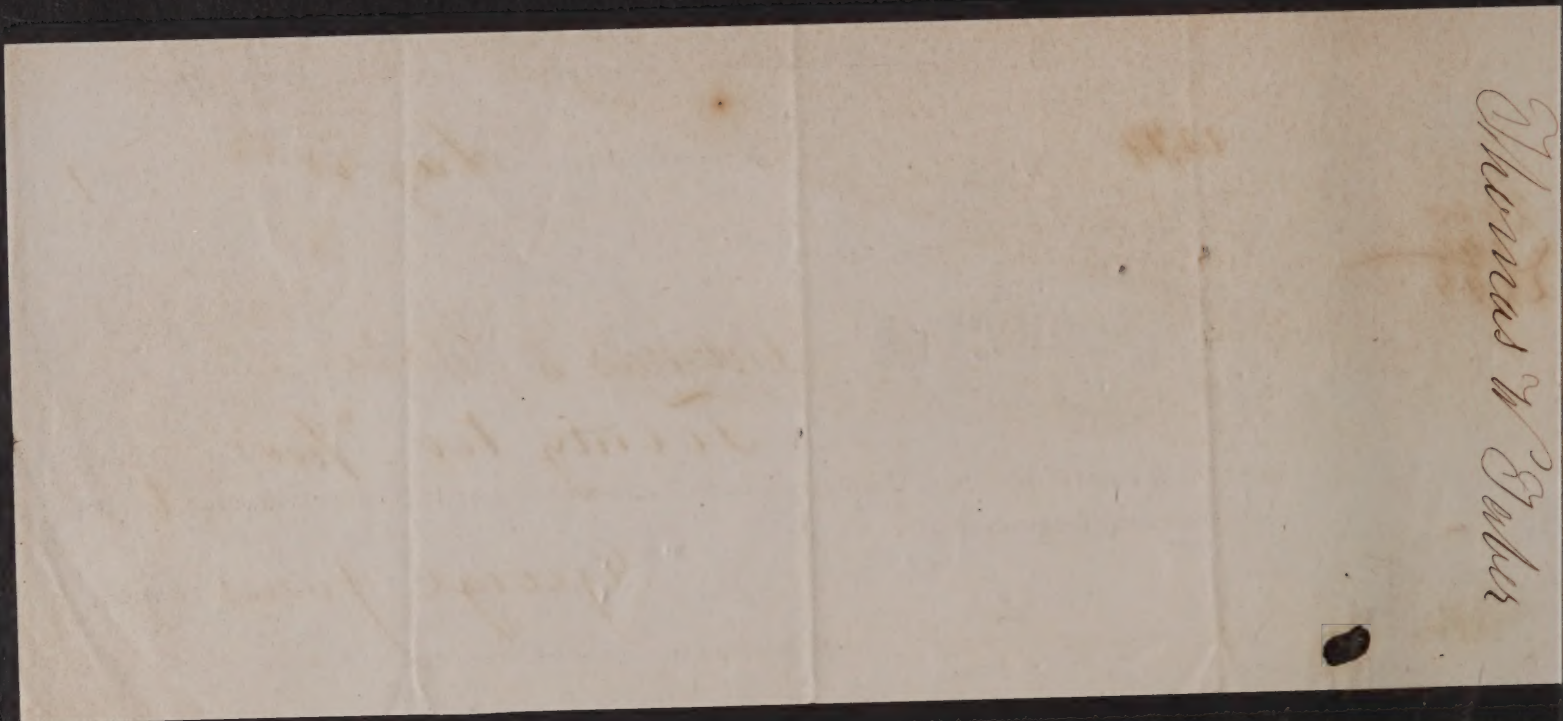
Twenty two <sup>94</sup>/<sub>100</sub>

Dollars,

being the amount of his State, County and Town Taxes for the year 1877, after deducting 6 per cent. abatement for prompt pay.

George Jones Collector.

Thomas W. Parker



BILLS SETTLED MONTHLY.

Fairhaven, *Dec 12* 1881

*Mellin Baker*

Bought of **C. B. Shaw,**

DEALER IN

MEATS AND VEGETABLES.

|               |              |               |           |
|---------------|--------------|---------------|-----------|
| <i>Nov 12</i> | <i>5 1/2</i> | <i>mg</i>     | <i>55</i> |
| <i>20</i>     | <i>5 1/2</i> | <i>" "</i>    | <i>55</i> |
| <i>26</i>     | <i>6</i>     | <i>" "</i>    | <i>90</i> |
| <i>Dec 10</i> | <i>3</i>     | <i>Pork</i>   | <i>36</i> |
| <i>" 11</i>   | <i>5 1/2</i> | <i>mg</i>     | <i>84</i> |
| <i>" 11</i>   |              | <i>Trumpy</i> | <i>4</i>  |
| <i>Dec 4</i>  | <i>6</i>     | <i>mg</i>     | <i>60</i> |
| <i>15</i>     | <i>2 1/4</i> | <i>mg</i>     | <i>22</i> |
| <i>17</i>     | <i>5</i>     | <i>Pork</i>   | <i>50</i> |
| <i>23</i>     | <i>4 1/2</i> | <i>mg</i>     | <i>45</i> |
| <i>31</i>     | <i>6 1/2</i> | <i>mg</i>     | <i>26</i> |
| <i>Jan 3</i>  | <i>2</i>     | <i>Trumpy</i> | <i>30</i> |
| <i>8</i>      | <i>3</i>     | <i>mg</i>     | <i>80</i> |

*9 678*

*561*

*1118*

*Dec 12*

*mg*

*1881*

*C. B. Shaw*



PARKER & HASKELL,

DEALERS IN

ANTHRACITE

AND

CUMBERLAND

COAL.

Office foot of Middle St.

NEW BEDFORD,

3 mo. 26 1887

Weighed 2000 lbs. *Stone* Coal, from

PARKER & HASKELL, to

*J W Baker*

*J W Baker*

Weigher.

18 Before that

The Philadelphia *Star* preaches the gospel of honesty to bankrupt debtors. It says very truthfully, "whether a man has become a bankrupt by real misfortune or succeeded in having himself declared such by fraud and misrepresentation, he is none the less in honor bound to meet his legally discharged obligations should subsequent business successes enable him to do so. To fail in this respect is to declare himself a man without moral principle, and one wholly unworthy of future confidence." This good doctrine, and were its spirit generally adopted, we suspect that failures would be much rarer than they are. But the world will have to wait a long time, we fear, before such strict honesty as this becomes universal.

Secretary S  
ture, prop  
ernm

orded. On a tombstone is the following:  
Augustus E. Bowen, died June 30, 1851,  
aged 31 years and 10 months—First tenant  
of Woodlawn."

The surface of Woodlawn is so level,  
that tombs built like those that so adorn  
and beautify Mount Auburn, are an im-  
possibility. The sculptor's chisel has pro-  
duced but few monuments more costly or  
elaborate than can be found in many vil-  
lage cemeteries in New England. It is  
completely encircled by hills, and its sur-  
roundings are wholly rural. So quiet and  
secluded it is, that these alone, give to it  
in the estimation of many, its greatest  
charm.

There are several acres near the en-  
trances appropriated to lawns, shrubbery,  
and flowers. In respect to the  
The  
in

TERMS CASH.

*New Bedford, Nov 28 1881*  
*Mr. J. W. Taber.*

SOLE AGENTS  
For the sale of  
Brand's Whaling Guns  
AND  
BOMB LANCES.



**PARKER & HASKELL,**  
(Successors to E. P. HASKELL.)

DEALERS IN FIRST QUALITY OF

**ANTHRACITE AND BITUMINOUS COAL,**

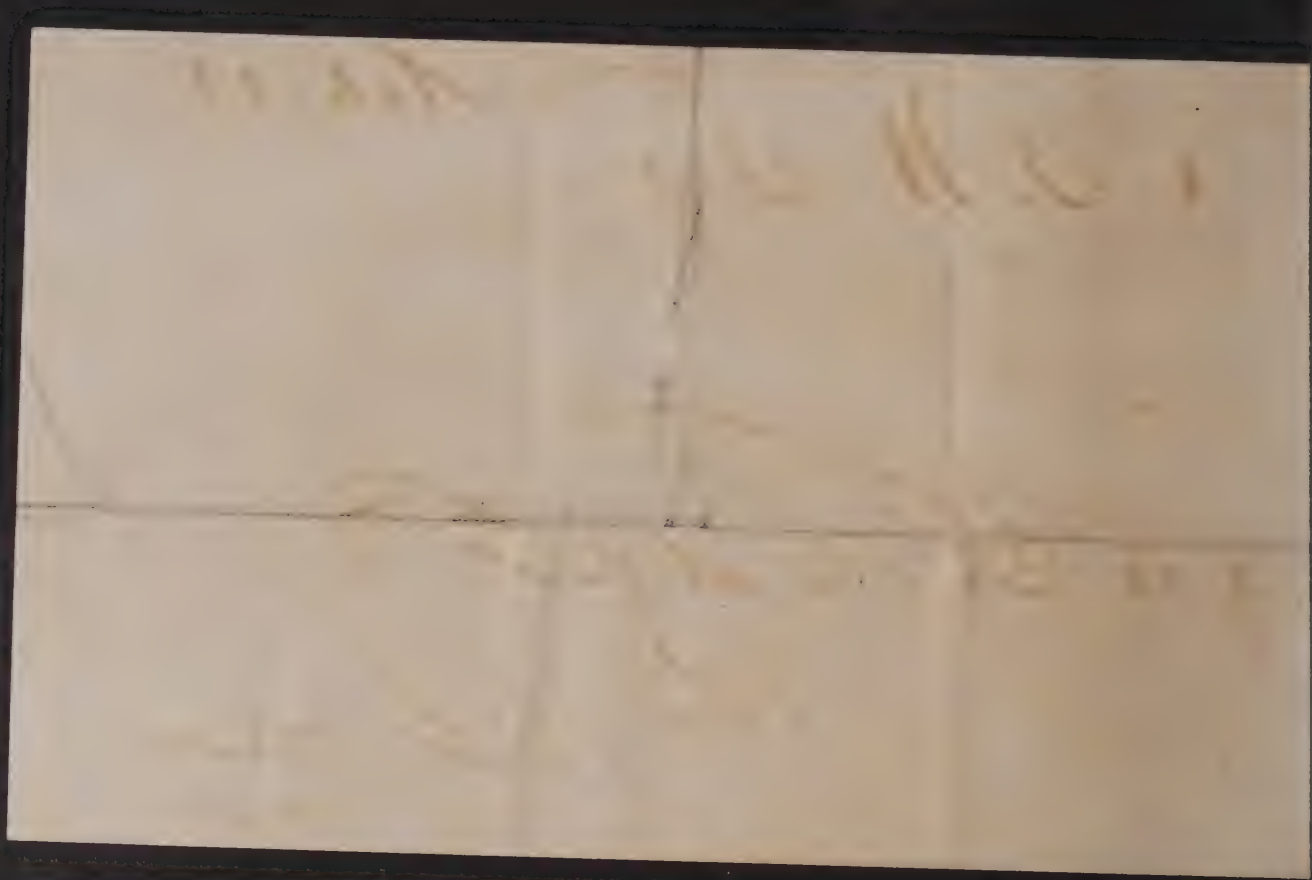
Office, foot of Middle Street.

Customers are requested to Report any want of attention on the part of the Teamsters.

*3 26 To 1 ton pt. tank 8 "*

*Recd*

*Parker & Haskell  
Super*



Feb 25, 1908  
Wrote to  
M. J. H. H. H.





Permalife®  
pH 8.5











New Bedford, ..... 187

Mr. *The S. H. [unclear]*

**Bought of A. E. LUCAS,**

**DEALER IN**

*Boots and Shoes, Hats and Caps, Clothing and Furnishing Goods.*

*Also, Oil and Rubber Clothing, Belting, Leather, Findings, &c.,*

**NO. 129 UNION STREET, SIGN OF THE BIG BOOT.**

|                |                     |             |             |
|----------------|---------------------|-------------|-------------|
| <i>2 pairs</i> | <i>one Hat</i>      | <i>2.00</i> |             |
| <i>5 a/c</i>   | <i>rubber Boots</i> | <i>3.00</i> | <i>5.00</i> |

*Recd. Payment*

*A. E. Lucas*

*by*

*G. A. Howland*

Post. 12. Paper

5.00

954. 1940. 212  
1928  
1911

1913 - 4. 11  
1875 - 5. 9  
2. 7. 24

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Here Sir is a map for the civilized world to consult  
It map for every home the Land of Egypt's great warriors  
of Europe's sects.

Here, Sir, is a map of Europe showing from England to  
Egypt and from the Mediterranean to the Baltic Sea,  
all seen and comprehended at a single glance. There to the  
East you will perceive underlined with a red line,  
is the mine of Ninewah, Samarra, the river Jordan,  
the Pyramids of Egypt; there is the Red Sea, where  
Moses and his hosts were drowned, white mountains  
in Israelites, Mount Ararat, where the Ark rested after  
the flood. Here is the river Jordan in which our  
Saviour <sup>was</sup> baptised - place remarkable in the New  
Testament, and of interest to every student and child.

Here in the Mediterranean sea, is the Isle of Candia;  
where the Christians defended themselves against  
the Turks; there is Rome the great city now garrisoned  
by French troops to protect the Pope; Paris, Berlin,  
London, Venice, Florence, Moscow there is Capri in  
the Mediterranean Sea the Island home of Garibaldi.

Here is Luxembourg and yet the strongest in Europe  
it was this little spot which came near being  
conquered in 1869 again in 1869; here a few miles from  
Bonn is the field of Waterloo, where Napoleon the First  
was defeated in 1815 by the Duke of Wellington. Here is  
the Guinea and the Port of Sebastopol where for two  
years the combined armies of France and England battled  
away before capturing it, and took right opposite Sebastopol  
are with in the straits of Constantinople leading out in the  
Mediterranean Sea, and thence into the Atlantic Ocean  
via the Straits of Gibraltar. It was for the purpose of gaining  
this outlet that Russia <sup>attempted</sup> the conquest of Turkey, Russia  
in the Crimean war, but France and England combined  
against Russia and defeated her. Since that time  
Russia has turned her attention Eastward, toward Asia.  
Here on the West coast of Ireland you will perceive  
Dublin from whence start the Atlantic cables to  
America the greatest feat of science and enterprise  
ever the world saw made. It was the laying of  
these ocean cables that surprised the world  
the laying of his great network, the laying of  
cables and cinders, that the people in both the  
Old and New World might read their ocean cable  
new understandingly.

Here at the eastern end of the Mediterranean Sea is  
Egypt; here emptying into this great sea is the famous  
River Nile; right at this spot is the Suez Ship Canal  
100 miles long, extending from the Red Sea deep  
enough for the largest Merchantman to pass in.  
To the East India, China, Japan and California  
a sailing in distance of 15000 miles over the old  
route of vessels around the Cape of Good Hope.  
Here up north is the Battle field in Prussia,  
where the French and Prussian armies are to  
decide their strength, and in case Prussia  
should be defeated, it is supposed will lead  
to the uprising in all Germany against Napoleon,  
and perhaps the whole Empire will be there-  
drawn into a general war. These heavy  
blue blotches of coloring in Prussia represents  
the minor German Kingdoms which remain  
conquered after her unsuccessful encounter with  
Austria a few years ago. This is the best  
Map of Europe ever made.

Lloyd's maps are the best made in the  
world; as a proof of this see the certificates  
from General Grant, Sherman, Sheridan,  
Sherman, and the Chief military Correspondent  
of the New York Herald and Tribune's Cape-  
town the entire army during the four years of our civil  
war. When any other map publisher receives com-  
plaints of the correctness of his maps from our commanding  
generals in the field marching thousands of miles  
through a hostile and strange country using our  
maps as guides from Atlanta to the sea, and from  
Virginia to the Gulf is not before Lloyd's have attempt-  
ed to deceive the public with spurious Lloyd's maps.  
The public are cautioned <sup>against</sup> these imitations.  
Lloyd's Map of Great Britain and Ireland is  
pronounced the best nautical map since the world  
was formed. More than 100,000 copies have  
been sold in the Old World since 1845.

O Lloyd Publisher.  
No. 30, Cornhill Street,  
New York City.

Here is a Map for the civilized world to  
consult a Map for every Home in the world. Every  
Great War Map of Europe is etc.

Here is a Map of Europe showing from England  
to Egypt and from the Mediterranean to the  
British Sea, all seen and comprehended at a  
single glance. There to the East you will perceive  
underlined with a red dash, is the River  
of Nimrod, the Nile, the River Jordan, the  
Pyramids of Egypt; there is the Red Sea, where  
Moses and his hosts were delivered while  
passing the Israelites, Mount Ararat, where  
the Ark rested after the flood. Here is the river  
Jordan in which our Saviour was baptised  
place remarkable in Holy writ, and of interest  
to every student and child. Here in the Mediterranean  
sea is the Isle of Candia where the Christians  
defended themselves against Turks; there is Rome  
the great city now garrisoned by French troops to  
protect the Pope; Paris, Berlin, London, Vienna,  
Moscov. There is Casperra in the  
Mediterranean sea the Island Home of Garibaldi,  
and is insular and fertile the strongest in Europe  
it was this little spot which came so near destroying  
Europe in war again in 1866; here a few miles  
from Brussels, is the field of Waterloo, where Napoleon  
the first was defeated in 1815 by the Duke of Wellington.  
There is the Crimea and the Port of Sebastopol where  
in the year the combined armies of France and  
England battered away before establishing it, Russia  
took right opposite Sebastopol you will see the Straits  
of Constantinople leading out in the Mediterranean  
Sea, and thence into the Atlantic Ocean. Via Straits  
of Gibraltar, it was for the purpose of gaining this  
strait that Russia attempted the conquest of  
Turkey, but as the Crimean war but France  
and England combined against Russia and defeated  
her. Since that time Russia has turned her  
attention Eastward toward Asia. Here on the West  
coast of Ireland you will perceive Valencia from  
whence start the Atlantic cable to America the  
greatest feat of science and enterprise since  
the world was made. It was the successful laying  
of these Ocean cables that requires a 15th Street

The issuing of his great revolving double maps of  
Europe and America, that the people in both the  
old and New-World might read their ocean  
cable news understandingly. Here at the bottom  
end of the American map, Beh is Egypt; entering  
into this great sea is the famous River Nile;  
right at this spot is the Suez Ship Canal, 100  
miles long, extending from the Red Sea, deep  
enough for the largest merchantmen to pass  
through to the East India, China, Japan, and  
California. Saving in distance of 10,000 miles  
over the old route of vessels around the Cape  
of Good Hope. There up is the Battle field in  
Prussia where the French and Prussian  
Armies are to decide their strength, and in  
case Prussia should be defeated, it is supposed  
will lead to the uprising in all Germany against  
Napoleon, and perhaps the whole of Europe  
will be thus drawn into a general war. These  
many blue blotches of coloring in Prussia represents  
the minor German Kingdoms which Prussia  
annexed after her successful encounter with  
Austria a few years ago. This is the map of  
Europe over made.

Lloyd's Maps are the best made in  
the world; as a proof of this see the Certificates  
from General Grant, Sherman, Sheridan, Sherman,  
and the Chief Military Correspondent of the New York  
Herald on Sheridan's Staff, and the entire army,  
showing the four years of our own war, which  
did any other map publisher arrive such  
proof of the correctness of his maps from our  
Commanding Generals in the field marching thousands  
of miles through a hostile and strange country, being  
our steps as guides from Atlanta to the Sea, and  
from Virginia to the Gulf; yet Bogus Lloyd's  
have attempted to deceive the Public with spurious  
Lloyd's Maps. The public are cautioned against  
these imitations. Lloyd's Maps of Great Britain and  
Ireland is pronounced the best maps made  
since the world was formed. More than 100,000  
copies have been sold in the Old World since  
1865.

E. Lloyd Publisher,  
706, corner Cortlandt Street,  
New-York City;

Saint Haven June 24<sup>th</sup> 1889

J. S. M. Huber was Commander of Steam Boat Lumber in the  
U. S. Government Service on the Rio Grande River  
in the Mexican war from part of the year of 1847  
till the close of the war with Mexico, when making  
down trips I was ordered by Capt Ogden the Quartermaster  
to proceed to at Porto Alto and take on Board  
a number of Palmito Logs for the mouth of the River  
while getting them on the boat I had my right foot  
badly crushed which made me a cripple for life.  
Being in New Orleans in the war of the Rebellion







No. 1860

4524

# JOURNAL OF VOYAGES

Of the *The Mohr / Moonlight.*

Commanded by *Capt. George H. Bulbitt.*

Kept by *Wm. D. Parker.*



THOMAS GROOM & CO.

INDIA BUILDING, No. 82 STATE STREET, BOSTON,

MANUFACTURERS OF

PAGED AND HEADED ACCOUNT BOOKS.

PUBLISHERS OF

SUMNER'S NEW METHOD OF FINDING A SHIP'S POSITION AT SEA,

DANA'S SEAMAN'S FRIEND,

PRINTED LOG BOOKS AND SEA JOURNALS,

Cargo Books, Custom House and Shipping Blanks.

COAST PILOTS, NAVIGATORS, CALCULATORS.

Writing Books, Memorandum Books, School and Log Slates, Letter Papers.

POCKET CUTLERY, ETC.



# Journal from New York towards Port Sarawak

Hours. KNOTS. Half Knots. COURSES. WINDS. Leeway. Barometer. Thermometer. Air. Water. Remarks, 13<sup>th</sup> day of Oct. 1860

1 Passengers on Board  
2 in. Enter of Carpenter all hands employed  
3 Carpenter's wife in getting the vessel  
4 ready for sea.  
5  
6  
7 Master & Lloyd Carpenter at 5 A.M. all hands  
8 on Board weighed  
9 anchor and stood down  
10 the Bay with a light  
11 breeze from the N.W.  
12  
1 I myself & H. W. Taber at 5 A.M. hands. Hook light  
2 and 4 more gentle and light bore west from thence &  
3 set of passengers never got to take my departure.  
4  
5  
6 at 2 M Barnagat Light  
7 bore west vessel under all  
8 sail  
9 Latter part of the day fine  
10 weather the crew very busy  
11 employed  
12 our amusements game of whips & pumps alternated  
or more for a change of scene & now and then a game of dominoes

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

Hours. KNOTS. Half Knots. COURSES. WINDS. Leeway. Barometer. Thermometer. Air. Water. Remarks, 14<sup>th</sup> day of Oct. 1860

1 8 S by W. N.E.  
2 8  
3 8  
4 8 North by E  
5 8  
6 8  
7 8  
8 8  
9 8  
10 8  
11 8  
12 8  
1 8  
2 8  
3 8  
4 8  
5 8  
6 8 N.W. N.E.  
7 8  
8 8 N.W.  
9 8  
10 8 N.W. N.E.  
11 8  
12 8  
1 8  
2 8  
3 8  
4 8  
5 8  
6 8  
7 8  
8 8  
9 8  
10 8  
11 8  
12 8  
I got close reefed mainsail & foremast

Come in with fresh breeze and fine weather.  
at 4 P.M. took in the light sails.  
at 5 P.M. (Sun the vessel the mainsail)  
(I saw web & drank a large pitcher of sweet cider with vinegar)  
at 3 A.M. took in mainsail & flying jib.  
at 11 the wind changed suddenly to E by N blowing a perfect Hurricane took in and furled all sail in the best possible manner the sea being high and running in all directions we were completely covered with water washed away some of the bulwarks by which means lost fenders buckets & brooms & started casks on deck soured the pump. Unwinded the pumps & put water in the vessel

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            | 55.45             | 58.31           |            | 74.00            |              |              |

# Journal from New York towards Port Luvunga.

| Hours. | KNOTS. | Half Knots. | COURSES.    | WINDS. | Leeway. | Barometer. | Thermometer.<br>Air. Water. | Remarks, 15 <sup>th</sup> day of Oct. 1860 |
|--------|--------|-------------|-------------|--------|---------|------------|-----------------------------|--------------------------------------------|
| 1      | 2      |             | Y. W. N. E. |        |         |            |                             | after peruvian A little                    |
| 2      | 2      |             |             |        |         |            |                             | more moderate pumped                       |
| 3      | 2      |             |             |        |         |            |                             | out the water with R. L.                   |
| 4      | 2      |             | by W North  |        |         |            |                             | at 10 p. set Double Reefed Mainsail        |
| 5      | 2      |             |             |        |         |            |                             | Lib & fore staysail.                       |
| 6      | 2      |             |             |        |         |            |                             | Heaved of S by W.                          |
| 7      | 2      |             |             |        |         |            |                             | at 4 A. M. set whole                       |
| 8      | 2      |             |             |        |         |            |                             | Moresail.                                  |
| 9      | 2      |             |             |        |         |            |                             |                                            |
| 10     | 2      |             |             |        |         |            |                             | The Lady Passengers quite                  |
| 11     | 2      |             |             |        |         |            |                             | sick of the sea.                           |
| 12     | 2      |             |             |        |         |            |                             | at 1 p. weather better                     |
| 1      | 2      |             |             |        |         |            |                             | set all sail                               |
| 2      | 2      |             |             |        |         |            |                             | board & Luvunga Pithier of Direct rider    |
| 3      | 2      |             |             |        |         |            |                             | all round the & clothes perishing          |
| 4      | 2      |             |             |        |         |            |                             | Watches variously improved                 |
| 5      | 2      |             |             |        |         |            |                             |                                            |
| 6      | 2      |             |             |        |         |            |                             |                                            |
| 7      | 2      |             |             |        |         |            |                             |                                            |
| 8      | 2      |             |             |        |         |            |                             |                                            |
| 9      | 2      |             |             |        |         |            |                             |                                            |
| 10     | 2      |             |             |        |         |            |                             | Pumps attended                             |
| 11     | 2      |             |             |        |         |            |                             |                                            |
| 12     | 2      |             |             |        |         |            |                             |                                            |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   | 33. 40.         |            |                  | 75. 06.      | 74. 40.      |

| Hours. | KNOTS. | Half Knots. | COURSES.     | WINDS. | Leeway. | Barometer. | Thermometer.<br>Air. Water. | Remarks, 16 <sup>th</sup> day of Oct. 1860 |
|--------|--------|-------------|--------------|--------|---------|------------|-----------------------------|--------------------------------------------|
| 1      | 7      |             | Wh. W. N. E. |        |         |            |                             | Come in with a fine                        |
| 2      | 8      |             |              |        |         |            |                             | breeze from N by East                      |
| 3      | 8      |             |              |        |         |            |                             | any quantity of sweet cider                |
| 4      | 8      |             | South        |        |         |            |                             | at 1 p. Took A. M. sail                    |
| 5      | 8      |             | by W. N. E.  |        |         |            |                             | from the northward                         |
| 6      | 8      |             |              |        |         |            |                             | Took in light sails &                      |
| 7      | 8      |             |              |        |         |            |                             | the mainsail                               |
| 8      | 8      |             |              |        |         |            |                             |                                            |
| 9      | 8      |             |              |        |         |            |                             |                                            |
| 10     | 8      |             |              |        |         |            |                             |                                            |
| 11     | 8      |             |              |        |         |            |                             |                                            |
| 12     | 8      |             |              |        |         |            |                             | at 12. A. set Double Reef                  |
| 1      | 8      |             |              |        |         |            |                             | Mainsail                                   |
| 2      | 8      |             |              |        |         |            |                             |                                            |
| 3      | 8      |             |              |        |         |            |                             | at 8. M. set the whole                     |
| 4      | 8      |             |              |        |         |            |                             | mainsail & topsails                        |
| 5      | 8      |             |              |        |         |            |                             | wateries variously improved                |
| 6      | 8      |             |              |        |         |            |                             |                                            |
| 7      | 8      |             |              |        |         |            |                             |                                            |
| 8      | 8      |             |              |        |         |            |                             |                                            |
| 9      | 8      |             |              |        |         |            |                             | Pumps attended                             |
| 10     | 8      |             |              |        |         |            |                             |                                            |
| 11     | 8      |             |              |        |         |            |                             | The Ladies getting somewhat                |
| 12     | 8      |             |              |        |         |            |                             | over their sea sickness.                   |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   | 31. 06          |            |                  | 75. 10.      | 75. 10       |

# Journal from *New York* towards *Port Liverpool*

| Hours. | KNOTS. | Half Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer.<br>Air. Water. | Remarks, 17 <sup>th</sup> day of Oct. 1850                                  |
|--------|--------|-------------|----------|--------|---------|------------|-----------------------------|-----------------------------------------------------------------------------|
| 1      |        |             |          |        |         |            |                             | <i>Come in us to fine weather</i>                                           |
| 2      | 5      |             |          |        |         |            |                             |                                                                             |
| 3      | 5      |             |          |        |         |            |                             |                                                                             |
| 4      | 5      |             |          |        |         |            |                             |                                                                             |
| 5      | 5      |             |          |        |         |            |                             | <i>South by E.</i>                                                          |
| 6      | 5      |             |          |        |         |            |                             |                                                                             |
| 7      | 5      |             |          |        |         |            |                             |                                                                             |
| 8      | 5      |             |          |        |         |            |                             |                                                                             |
| 9      | 5      |             |          |        |         |            |                             | <i>Middle &amp; latter part of the A. M. fine &amp; pleasant throughout</i> |
| 10     | 5      |             |          |        |         |            |                             |                                                                             |
| 11     | 5      |             |          |        |         |            |                             |                                                                             |
| 12     | 5      |             |          |        |         |            |                             |                                                                             |
| 1      | 5      |             |          |        |         |            |                             | <i>sweet cider all round.</i>                                               |
| 2      | 5      |             |          |        |         |            |                             |                                                                             |
| 3      | 5      |             |          |        |         |            |                             |                                                                             |
| 4      | 5      |             |          |        |         |            |                             |                                                                             |
| 5      | 6      |             |          |        |         |            |                             | <i>wateries employed in making matts to go on the spars &amp; rigging</i>   |
| 6      | 7      |             |          |        |         |            |                             |                                                                             |
| 7      | 7      |             |          |        |         |            |                             |                                                                             |
| 8      | 8      |             |          |        |         |            |                             |                                                                             |
| 9      | 8      |             |          |        |         |            |                             | <i>Drumps attended</i>                                                      |
| 10     | 8      |             |          |        |         |            |                             |                                                                             |
| 11     | 9      |             |          |        |         |            |                             |                                                                             |
| 12     | 9      |             |          |        |         |            |                             |                                                                             |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   | 28.35           |            |                  | 75.55        |              |

| Hours. | KNOTS. | Half Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer.<br>Air. Water. | Remarks, 18 <sup>th</sup> day of Oct. 1850.                                                                                                          |
|--------|--------|-------------|----------|--------|---------|------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | 8      |             |          |        |         |            |                             | <i>First part Strong Breeze the Lucky passengers getting wright smart.</i>                                                                           |
| 2      | 8      |             |          |        |         |            |                             |                                                                                                                                                      |
| 3      | 8      |             |          |        |         |            |                             |                                                                                                                                                      |
| 4      | 8      |             |          |        |         |            |                             |                                                                                                                                                      |
| 5      | 8      |             |          |        |         |            |                             | <i>at 8 A M. weather bad. A bar aperance stored the topsails &amp; double reefed the mainsail with heavy showers of rain through the whole night</i> |
| 6      | 8      |             |          |        |         |            |                             |                                                                                                                                                      |
| 7      | 8      |             |          |        |         |            |                             |                                                                                                                                                      |
| 8      | 8      |             |          |        |         |            |                             |                                                                                                                                                      |
| 9      | 8      |             |          |        |         |            |                             | <i>at 5 A M fine weather all sail soft</i>                                                                                                           |
| 10     | 8      |             |          |        |         |            |                             |                                                                                                                                                      |
| 11     | 8      |             |          |        |         |            |                             |                                                                                                                                                      |
| 12     | 8      |             |          |        |         |            |                             |                                                                                                                                                      |
| 1      | 1      |             |          |        |         |            |                             | <i>cider all round</i>                                                                                                                               |
| 2      | 2      |             |          |        |         |            |                             |                                                                                                                                                      |
| 3      | 1      |             |          |        |         |            |                             |                                                                                                                                                      |
| 4      | 2      |             |          |        |         |            |                             |                                                                                                                                                      |
| 5      | 3      |             |          |        |         |            |                             | <i>wateries variously employed</i>                                                                                                                   |
| 6      | 3      |             |          |        |         |            |                             |                                                                                                                                                      |
| 7      | 3      |             |          |        |         |            |                             |                                                                                                                                                      |
| 8      | 4      |             |          |        |         |            |                             |                                                                                                                                                      |
| 9      | 4      |             |          |        |         |            |                             | <i>Drumps regularly attended</i>                                                                                                                     |
| 10     | 3      |             |          |        |         |            |                             |                                                                                                                                                      |
| 11     | 3      |             |          |        |         |            |                             |                                                                                                                                                      |
| 12     | 3      |             |          |        |         |            |                             |                                                                                                                                                      |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   | 20.32           |            |                  | 76.10        | 76.19        |

# Journal from New York towards Port Lourenço

| Hours. | KNOTS. | Half Knots. | COURSES.     | WINDS. | Leeway. | Barometer. | Thermometer.<br>Air. Water. | Remarks, 19 <sup>th</sup> day of Oct 1850 |
|--------|--------|-------------|--------------|--------|---------|------------|-----------------------------|-------------------------------------------|
| 1      | 3      |             | N.W. & E     |        |         |            |                             | First part light winds                    |
| 2      | 2      |             |              |        |         |            |                             |                                           |
| 3      | 3      |             |              |        |         |            |                             |                                           |
| 4      | 2      |             |              |        |         |            |                             |                                           |
| 5      | 3      |             |              |        |         |            |                             |                                           |
| 6      | 2      |             |              |        |         |            |                             | at 11 A.M. Saw the light on Abaco Island. |
| 7      | 3      |             |              |        |         |            |                             | Bearing S.W.                              |
| 8      | 2      |             |              |        |         |            |                             |                                           |
| 9      | 3      |             |              |        |         |            |                             |                                           |
| 10     | 3      |             | N.W. North   |        |         |            |                             | Pickering and Pies & Clarke on duty       |
| 11     | 3      |             |              |        |         |            |                             | at 12 M. Tacked to S.E.                   |
| 12     | 3      |             |              |        |         |            |                             |                                           |
| 1      | 3      |             |              |        |         |            |                             | at 3 A.M. Tacked to the West              |
| 2      | 3      |             |              |        |         |            |                             |                                           |
| 3      | 2      |             | W by N S.W.  |        |         |            |                             | at 4 Tacked to the South                  |
| 4      | 4      |             |              |        |         |            |                             |                                           |
| 5      | 4      |             | S.W. N.W.    |        |         |            |                             | at 7 A.M. the light bore                  |
| 6      | 5      |             |              |        |         |            |                             | S.W. 15 miles                             |
| 7      | 5      |             |              |        |         |            |                             |                                           |
| 8      | 5      |             | S.W. 15 by S |        |         |            |                             | watching & mended at                      |
| 9      | 2      |             |              |        |         |            |                             | laundry jobs.                             |
| 10     | 2      |             |              |        |         |            |                             | Pumps attended                            |
| 11     | 5      |             |              |        |         |            |                             |                                           |
| 12     | 5      |             |              |        |         |            |                             |                                           |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   | 25.40.          |            |                  | 75.51.       | 77. 12.      |

| Hours. | KNOTS. | Half Knots. | COURSES.  | WINDS. | Leeway. | Barometer. | Thermometer.<br>Air. Water. | Remarks, 20 <sup>th</sup> day of Oct 1850 |
|--------|--------|-------------|-----------|--------|---------|------------|-----------------------------|-------------------------------------------|
| 1      | 6      |             | N.W. West |        |         |            |                             | First part strong, rest calm.             |
| 2      | 7      |             |           |        |         |            |                             | winds                                     |
| 3      | 7      |             |           |        |         |            |                             | at 1 P.M. Tacked to the N.                |
| 4      | 7      |             |           |        |         |            |                             | at 4 P.M. Tacked to S.W.                  |
| 5      | 7      |             | N.W. N.W. |        |         |            |                             |                                           |
| 6      | 5      |             |           |        |         |            |                             | at 8 Tacked to N.W.                       |
| 7      | 5      |             |           |        |         |            |                             |                                           |
| 8      | 5      |             | N.W. S.W. |        |         |            |                             | 12 Tacked to the South                    |
| 9      | 5      |             |           |        |         |            |                             |                                           |
| 10     | 3      |             |           |        |         |            |                             | 4 A.M. Tacked S.W.                        |
| 11     | 3      |             |           |        |         |            |                             |                                           |
| 12     | 3      |             | South     |        |         |            |                             | 6 Tacked to the South                     |
| 1      | 3      |             |           |        |         |            |                             | 9 Tacked to N.W.                          |
| 2      | 3      |             |           |        |         |            |                             |                                           |
| 3      | 3      |             | N.W.      |        |         |            |                             |                                           |
| 4      | 3      |             |           |        |         |            |                             |                                           |
| 5      | 4      |             |           |        |         |            |                             |                                           |
| 6      | 7      |             | South     |        |         |            |                             |                                           |
| 7      | 7      |             |           |        |         |            |                             | atches previously employed                |
| 8      | 7      |             |           |        |         |            |                             |                                           |
| 9      | 6      |             | N.W.      |        |         |            |                             |                                           |
| 10     | 6      |             |           |        |         |            |                             | Pumps regularly attended to               |
| 11     | 6      |             |           |        |         |            |                             |                                           |
| 12     | 6      |             |           |        |         |            |                             |                                           |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   | 25.55.          |            |                  | 78.07        | 77. 50.      |

# Journal from New York towards Port Sarawak.

| Hours. | KNOTS. | Half Knots. | COURSES.          | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, 21 <sup>st</sup> day of Oct. 1860 |
|--------|--------|-------------|-------------------|--------|---------|------------|--------------|--------|--------------------------------------------|
|        |        |             |                   |        |         |            | Air.         | Water. |                                            |
| 1      | 4      |             | N. by W.          | N. W.  |         |            |              |        | Came in fine pleasant                      |
| 2      | 5      |             |                   |        |         |            |              |        | weather fall sail set                      |
| 3      | 5      |             |                   |        |         |            |              |        | to the best possible advantage             |
| 4      | 5      |             | N. W. by W.       |        |         |            |              |        | at 10. A. M. small boat came along side    |
| 5      | 4      |             |                   |        |         |            |              |        | bought fish & shells of them               |
| 6      | 5      |             |                   |        |         |            |              |        |                                            |
| 7      | 5      |             |                   |        |         |            |              |        | at 5. P. M. 21 <sup>st</sup> Key bore      |
| 8      | 5      |             | 1/2 fathoms water |        |         |            |              |        | at 5. P. M. 21 <sup>st</sup> Key bore      |
| 9      | 1      |             |                   |        |         |            |              |        | at 5. P. M. 21 <sup>st</sup> Key bore      |
| 10     | 1      |             |                   |        |         |            |              |        | at 5. P. M. 21 <sup>st</sup> Key bore      |
| 11     | 5      |             | N. W. by S        |        |         |            |              |        | The Lady passengers in tip top             |
| 12     | 5      |             |                   |        |         |            |              |        | health and up about 2.00.                  |
| 1      | 5      |             |                   |        |         |            |              |        | Several sail in sight                      |
| 2      | 3      |             |                   | N. W.  |         |            |              |        | Whistle & latter part fine                 |
| 3      | 3      |             |                   |        |         |            |              |        | weather                                    |
| 4      | 3      |             |                   |        |         |            |              |        |                                            |
| 5      | 3      |             |                   |        |         |            |              |        |                                            |
| 6      | 4      |             |                   |        |         |            |              |        | spoke the Barque Warren Fisher on          |
| 7      | 4      |             |                   |        |         |            |              |        | Philadelphia Bound to Galveston            |
| 8      | 4      |             |                   |        |         |            |              |        |                                            |
| 9      | 4      |             |                   |        |         |            |              |        | Dumps Regular attended                     |
| 10     | 1      |             |                   |        |         |            |              |        | cider getting to little acid               |
| 11     | 4      |             |                   |        |         |            |              |        | took a little whiskey instead              |
| 12     | 4      |             |                   |        |         |            |              |        |                                            |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   | 25. 17.         |            |                  | 79. 03       | 79. 00.      |

| Hours. | KNOTS. | Half Knots. | COURSES.    | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, 22 <sup>nd</sup> day of Oct. 1860 |
|--------|--------|-------------|-------------|--------|---------|------------|--------------|--------|--------------------------------------------|
|        |        |             |             |        |         |            | Air.         | Water. |                                            |
| 1      | 5      |             | N. W. by N. | N. W.  |         |            |              |        | First part fine pleasant                   |
| 2      | 5      |             |             |        |         |            |              |        | weather                                    |
| 3      | 5      |             |             |        |         |            |              |        |                                            |
| 4      | 5      |             | N. W.       | N. W.  |         |            |              |        | at 4. P. M. Orange Key                     |
| 5      | 8      |             |             |        |         |            |              |        | Bears N. by W. 1/2 W. distant              |
| 6      | 8      |             |             |        |         |            |              |        | 9 miles                                    |
| 7      | 8      |             | N. W. by N. |        |         |            |              |        |                                            |
| 8      | 8      |             |             |        |         |            |              |        |                                            |
| 9      | 9      |             |             |        |         |            |              |        | at 3 A. M. made two                        |
| 10     | 9      |             |             |        |         |            |              |        | shot Key light                             |
| 11     | 9      |             |             |        |         |            |              |        |                                            |
| 12     | 3      |             |             |        |         |            |              |        |                                            |
| 1      | 9      |             |             |        |         |            |              |        | at 5. A. M. the light bore                 |
| 2      | 9      |             |             |        |         |            |              |        | Ob. 12. miles distant                      |
| 3      | 9      |             | N. W.       | N. W.  |         |            |              |        |                                            |
| 4      | 9      |             |             |        |         |            |              |        | Ob. 12. miles distant                      |
| 5      | 9      |             |             |        |         |            |              |        | Ob. 12. miles distant                      |
| 6      | 9      |             | N. W.       | N.     |         |            |              |        | Ob. 12. miles distant                      |
| 7      | 9      |             |             |        |         |            |              |        | Ob. 12. miles distant                      |
| 8      | 9      |             |             |        |         |            |              |        | Ob. 12. miles distant                      |
| 9      | 9      |             |             |        |         |            |              |        | Ob. 12. miles distant                      |
| 10     | 9      |             | N. W.       | N.     |         |            |              |        | Ob. 12. miles distant                      |
| 11     | 9      |             |             |        |         |            |              |        | Ob. 12. miles distant                      |
| 12     | 9      |             |             |        |         |            |              |        | Ob. 12. miles distant                      |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   | 23. 2 1/2.      |            |                  | 81. 15       | 81. 50.      |

# Journal from New York towards Port Laverre

| Hours. | KNOTS. | Half Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer.<br>Air. Water. | Remarks, 23 <sup>rd</sup> day of Oct. 1860                         |
|--------|--------|-------------|----------|--------|---------|------------|-----------------------------|--------------------------------------------------------------------|
| 1      | 8      |             | West     | North  |         |            |                             | Came in with fine & pleasant weather                               |
| 2      | 8      |             |          |        |         |            |                             | at 1 P.M. Saw the land on the Florida shore                        |
| 3      | 8      |             |          |        |         |            |                             | at 1.30 P.M. the splendid fortifications and Key West all in sight |
| 4      | 7      |             |          |        |         |            |                             | at 2 P.M. Saw & signalled a Steam ship bound East                  |
| 5      | 6      |             | W by N   |        |         |            |                             | at 3 P.M. passed the Land Key light distant 2 miles                |
| 6      | 7      |             |          |        |         |            |                             | Bound to New York                                                  |
| 7      | 6      |             |          |        |         |            |                             | signalled the Brig A Hopkins                                       |
| 8      | 7      |             |          |        |         |            |                             | at 12 Tortugas light bears N.E. by E 6 miles distant               |
| 9      | 7      |             |          |        |         |            |                             |                                                                    |
| 10     | 7      |             |          |        |         |            |                             |                                                                    |
| 11     | 7      |             |          |        |         |            |                             |                                                                    |
| 12     | 6      |             |          |        |         |            |                             |                                                                    |
| 1      | 6      |             |          |        |         |            |                             |                                                                    |
| 2      | 6      |             |          |        |         |            |                             |                                                                    |
| 3      | 6      |             |          |        |         |            |                             |                                                                    |
| 4      | 6      |             |          |        |         |            |                             |                                                                    |
| 5      | 7      |             |          |        |         |            |                             |                                                                    |
| 6      | 7      |             |          |        |         |            |                             |                                                                    |
| 7      | 6      |             |          |        |         |            |                             |                                                                    |
| 8      | 6      |             |          |        |         |            |                             |                                                                    |
| 9      | 6      |             |          |        |         |            |                             |                                                                    |
| 10     | 6      |             |          |        |         |            |                             |                                                                    |
| 11     | 6      |             |          |        |         |            |                             |                                                                    |
| 12     | 6      |             |          |        |         |            |                             |                                                                    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in    | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|-----------------|--------------|
|         |           |                 |            |                   | 25. 09.         |            |                  | 54. 11. 84. 24. |              |

| Hours. | KNOTS. | Half Knots. | COURSES.     | WINDS. | Leeway. | Barometer. | Thermometer.<br>Air. Water. | Remarks, 24 <sup>th</sup> day of Oct. 1860                     |
|--------|--------|-------------|--------------|--------|---------|------------|-----------------------------|----------------------------------------------------------------|
| 1      | 5      |             | W by N, N.E. |        |         |            |                             | Came in with fine pleasant weather                             |
| 2      | 4      |             |              |        |         |            |                             | at 10.30 P.M. Struck & got on board a fine porpoise            |
| 3      | 5      |             |              |        |         |            |                             | in the Company of Britment lost 3 fine Hounds overboard.       |
| 4      | 4      |             |              |        |         |            |                             |                                                                |
| 5      | 5      |             |              |        |         |            |                             | at 11.30 overboarded and picked over several barrels of Apples |
| 6      | 4      |             |              |        |         |            |                             |                                                                |
| 7      | 5      |             |              |        |         |            |                             |                                                                |
| 8      | 4      |             |              |        |         |            |                             |                                                                |
| 9      | 4      |             |              |        |         |            |                             |                                                                |
| 10     | 4      |             |              |        |         |            |                             |                                                                |
| 11     | 4      |             |              |        |         |            |                             |                                                                |
| 12     | 3      |             |              |        |         |            |                             |                                                                |
| 1      | 3      |             |              |        |         |            |                             |                                                                |
| 2      | 3      |             |              |        |         |            |                             |                                                                |
| 3      | 3      |             |              |        |         |            |                             |                                                                |
| 4      | 3      |             |              |        |         |            |                             |                                                                |
| 5      | 3      |             |              |        |         |            |                             |                                                                |
| 6      | 3      |             |              |        |         |            |                             |                                                                |
| 7      | 3      |             |              |        |         |            |                             |                                                                |
| 8      | 3      |             |              |        |         |            |                             |                                                                |
| 9      | 3      |             |              |        |         |            |                             |                                                                |
| 10     | 3      |             |              |        |         |            |                             |                                                                |
| 11     | 3      |             |              |        |         |            |                             |                                                                |
| 12     | 3      |             |              |        |         |            |                             |                                                                |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   | 25. 18.         |            |                  | 55. 46.      |              |

# Journal from New York towards Port Savanna.

Deer

| Hours. | KNOTS. | Half Knots. | COURSES.       | WINDS. | Leeway | Barometer. | Thermometer.<br>Air. Water. | Remarks, 25 <sup>th</sup> day of Oct 1860                                    |
|--------|--------|-------------|----------------|--------|--------|------------|-----------------------------|------------------------------------------------------------------------------|
| 1      | 3      |             | N. N. W. N. E. |        |        |            |                             | First part fine weather and fine breezes.                                    |
| 2      | 4      |             |                |        |        |            |                             |                                                                              |
| 3      | 3      |             |                |        |        |            |                             |                                                                              |
| 4      | 4      |             |                |        |        |            |                             |                                                                              |
| 5      | 5      |             |                |        |        |            |                             | the lovely Pilgrimage well spent and all round (see R.)                      |
| 6      | 5      |             |                |        |        |            |                             |                                                                              |
| 7      | 5      |             |                |        |        |            |                             |                                                                              |
| 8      | 5      |             |                |        |        |            |                             |                                                                              |
| 9      | 4      |             | N. E. by N.    |        |        |            |                             | Middle part the wind light                                                   |
| 10     | 4      |             |                |        |        |            |                             |                                                                              |
| 11     | 4      |             |                |        |        |            |                             |                                                                              |
| 12     | 4      |             |                |        |        |            |                             |                                                                              |
| 1      | 4      |             |                |        |        |            |                             | Cider getting to having a crick for drink kind took a little whiskey instead |
| 2      | 4      |             |                |        |        |            |                             |                                                                              |
| 3      | 5      |             |                |        |        |            |                             |                                                                              |
| 4      | 5      |             |                |        |        |            |                             |                                                                              |
| 5      | 5      |             | N. N. E.       |        |        |            |                             | Latter part fine Fresh Breezes.                                              |
| 6      | 5      |             |                |        |        |            |                             |                                                                              |
| 7      | 5      |             |                |        |        |            |                             |                                                                              |
| 8      | 5      |             |                |        |        |            |                             |                                                                              |
| 9      | 5      |             |                |        |        |            |                             | water has variously Employed                                                 |
| 10     | 5      |             |                |        |        |            |                             |                                                                              |
| 11     | 5      |             |                |        |        |            |                             |                                                                              |
| 12     | 5      |             |                |        |        |            |                             |                                                                              |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   | 25. 32.         |            |                  | 87. 16.      | 87. 15.      |

| Hours. | KNOTS. | Half Knots. | COURSES.          | WINDS. | Leeway | Barometer. | Thermometer.<br>Air. Water. | Remarks, 26 <sup>th</sup> day of Oct. 1860              |
|--------|--------|-------------|-------------------|--------|--------|------------|-----------------------------|---------------------------------------------------------|
| 1      | 5      |             | N. N. W. N. N. E. |        |        |            |                             | Comes in with warm & pleasant weather and fine breezes  |
| 2      | 5      |             |                   |        |        |            |                             |                                                         |
| 3      | 5      |             |                   |        |        |            |                             |                                                         |
| 4      | 5      |             |                   |        |        |            |                             |                                                         |
| 5      | 5      |             |                   |        |        |            |                             | Got the greater Clerk down.                             |
| 6      | 8      |             |                   |        |        |            |                             |                                                         |
| 7      | 8      |             |                   |        |        |            |                             |                                                         |
| 8      | 8      |             |                   |        |        |            |                             |                                                         |
| 9      | 8      |             | East.             |        |        |            |                             | had a fine load of barrel Peppercorns and other fixings |
| 10     | 8      |             |                   |        |        |            |                             |                                                         |
| 11     | 8      |             |                   |        |        |            |                             |                                                         |
| 12     | 8      |             |                   |        |        |            |                             |                                                         |
| 1      | 4      |             | E. S. E.          |        |        |            |                             | Middle part the wind light                              |
| 2      | 3      |             |                   |        |        |            |                             |                                                         |
| 3      | 3      |             |                   |        |        |            |                             |                                                         |
| 4      | 4      |             |                   |        |        |            |                             |                                                         |
| 5      | 5      |             | N. E.             |        |        |            |                             | pinked over apples for the time being fast.             |
| 6      | 5      |             |                   |        |        |            |                             |                                                         |
| 7      | 5      |             |                   |        |        |            |                             |                                                         |
| 8      | 5      |             |                   |        |        |            |                             |                                                         |
| 9      | 7      |             |                   |        |        |            |                             | Latter part fine Breezes                                |
| 10     | 7      |             |                   |        |        |            |                             |                                                         |
| 11     | 7      |             |                   |        |        |            |                             |                                                         |
| 12     | 7      |             |                   |        |        |            |                             |                                                         |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   | 27. 08.         |            |                  | 87. 12.      |              |

Journal from Lyonsville towards St. Louis

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| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            | 23° 44'           |                 |            |                  |              |              |

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Journal from Sept. 25<sup>th</sup> 76 towards 10<sup>th</sup> Oct. 76

| Hours. | KNOTS. | Half Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer.<br>Air. Water. | Remarks, day of Oct. 18                                                                                                                                                                                                                                                                           |
|--------|--------|-------------|----------|--------|---------|------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | 4      |             |          |        |         |            |                             | Commenced with fine weather<br>all sail set to the best possible<br>advantage. Arriving down<br>the river coast with the<br>Land in sight.                                                                                                                                                        |
| 2      | 4      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 3      | 4      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 4      | 4      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 5      | 4      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 6      | 4      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 7      | 3      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 8      | 3      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 9      | 1      |             |          |        |         |            |                             | Middle of Fresh Breeze with<br>squalls of Rain and Thunder<br>at Intervals - Intervals                                                                                                                                                                                                            |
| 10     | 1      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 11     | 1      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 12     | 1      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 1      | 3      |             |          |        |         |            |                             | at 6 P.M. made Cerro's point<br>and ran down to the Bar and<br>Took in sail and came to Anchor<br>in 5 fathoms water Saw a steamer<br>coming down from Gibraltar and<br>the 12th got Boat and met the passenger<br>boat and got on the steamer and took<br>Landed at London Horn and India in the |
| 2      | 3      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 3      | 3      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 4      | 3      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 5      | 2      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 6      | 2      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 7      | 2      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 8      | 2      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 9      | 1      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 10     | 1      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 11     | 1      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |
| 12     | 1      |             |          |        |         |            |                             |                                                                                                                                                                                                                                                                                                   |

| Course. | Distance.                       | Diff. Latitude.            | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|---------------------------------|----------------------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         | North                           | Latitudes much improved in |            |                   |                 |            | North            | Latitude     |              |
|         | from New York out to the        | Bunny                      |            |                   |                 |            | Yo. Encl.        |              |              |
|         | each one finding it a very good | to meet.                   |            |                   |                 |            |                  |              |              |

| Hours. | KNOTS. | Half Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer.<br>Air. Water. | Remarks, 30 <sup>th</sup> day of Oct, 1806.                     |
|--------|--------|-------------|----------|--------|---------|------------|-----------------------------|-----------------------------------------------------------------|
| 1      |        |             |          |        |         |            |                             | the 30 <sup>th</sup> came in with fine weather several steamers |
| 2      |        |             |          |        |         |            |                             | in from different parts and a number of                         |
| 3      |        |             |          |        |         |            |                             | private and vessels in port. latter part the wind               |
| 4      |        |             |          |        |         |            |                             | from time came up a cold weather and blowing                    |
| 5      |        |             |          |        |         |            |                             | a perfect Hurricane which made us stick close                   |
| 6      |        |             |          |        |         |            |                             | to the Hotel no getting travelling conveyance                   |
| 7      |        |             |          |        |         |            |                             | into the country on this day on a cold & blowing                |
| 8      |        |             |          |        |         |            |                             | heavy at the North. With sheet some of the                      |
| 9      |        |             |          |        |         |            |                             | vessels dragging, their moorings in the Harbour.                |
| 10     |        |             |          |        |         |            |                             |                                                                 |
| 11     |        |             |          |        |         |            |                             | Remarks on shore at Powder Horn. 31 <sup>st</sup> 1806.         |
| 12     |        |             |          |        |         |            |                             |                                                                 |
| 1      |        |             |          |        |         |            |                             | Commenced with strong breeze from the North the                 |
| 2      |        |             |          |        |         |            |                             | weather moderate and a S. W. breeze from                        |
| 3      |        |             |          |        |         |            |                             | Port. At 10 AM Capt. H. Go on Board the splendid                |
| 4      |        |             |          |        |         |            |                             | steamer to take Breakfast with him                              |
| 5      |        |             |          |        |         |            |                             | and at 1 PM. went up to Indian                                  |
| 6      |        |             |          |        |         |            |                             | and spent the afternoon of the day with a long                  |
| 7      |        |             |          |        |         |            |                             | walk and acquaintance.                                          |
| 8      |        |             |          |        |         |            |                             |                                                                 |
| 9      |        |             |          |        |         |            |                             |                                                                 |
| 10     |        |             |          |        |         |            |                             | Closes this day and month of October                            |
| 11     |        |             |          |        |         |            |                             | 1806.                                                           |
| 12     |        |             |          |        |         |            |                             |                                                                 |

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| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |
|         |           |                 |            |                   |                 |            |                  |              |              |

## Journal from

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Journal from

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| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. |  | Latitude by Ob. |  | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|--|-----------------|--|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |  |                 |  |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. |  | Latitude by Ob. |  | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|--|-----------------|--|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |  |                 |  |            |                  |              |              |

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| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.<br>Air. Water. | Remarks,     | day of       | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|-----------------------------|--------------|--------------|----|
| 1       |           |                 |            |                   |                 |            |                             |              |              |    |
| 2       |           |                 |            |                   |                 |            |                             |              |              |    |
| 3       |           |                 |            |                   |                 |            |                             |              |              |    |
| 4       |           |                 |            |                   |                 |            |                             |              |              |    |
| 5       |           |                 |            |                   |                 |            |                             |              |              |    |
| 6       |           |                 |            |                   |                 |            |                             |              |              |    |
| 7       |           |                 |            |                   |                 |            |                             |              |              |    |
| 8       |           |                 |            |                   |                 |            |                             |              |              |    |
| 9       |           |                 |            |                   |                 |            |                             |              |              |    |
| 10      |           |                 |            |                   |                 |            |                             |              |              |    |
| 11      |           |                 |            |                   |                 |            |                             |              |              |    |
| 12      |           |                 |            |                   |                 |            |                             |              |              |    |
| 1       |           |                 |            |                   |                 |            |                             |              |              |    |
| 2       |           |                 |            |                   |                 |            |                             |              |              |    |
| 3       |           |                 |            |                   |                 |            |                             |              |              |    |
| 4       |           |                 |            |                   |                 |            |                             |              |              |    |
| 5       |           |                 |            |                   |                 |            |                             |              |              |    |
| 6       |           |                 |            |                   |                 |            |                             |              |              |    |
| 7       |           |                 |            |                   |                 |            |                             |              |              |    |
| 8       |           |                 |            |                   |                 |            |                             |              |              |    |
| 9       |           |                 |            |                   |                 |            |                             |              |              |    |
| 10      |           |                 |            |                   |                 |            |                             |              |              |    |
| 11      |           |                 |            |                   |                 |            |                             |              |              |    |
| 12      |           |                 |            |                   |                 |            |                             |              |              |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude.            | Longitude in | Long. by Ob. |    |
|         |           |                 |            |                   |                 |            |                             |              |              |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.<br>Air. Water. | Remarks,     | day of       | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|-----------------------------|--------------|--------------|----|
| 1       |           |                 |            |                   |                 |            |                             |              |              |    |
| 2       |           |                 |            |                   |                 |            |                             |              |              |    |
| 3       |           |                 |            |                   |                 |            |                             |              |              |    |
| 4       |           |                 |            |                   |                 |            |                             |              |              |    |
| 5       |           |                 |            |                   |                 |            |                             |              |              |    |
| 6       |           |                 |            |                   |                 |            |                             |              |              |    |
| 7       |           |                 |            |                   |                 |            |                             |              |              |    |
| 8       |           |                 |            |                   |                 |            |                             |              |              |    |
| 9       |           |                 |            |                   |                 |            |                             |              |              |    |
| 10      |           |                 |            |                   |                 |            |                             |              |              |    |
| 11      |           |                 |            |                   |                 |            |                             |              |              |    |
| 12      |           |                 |            |                   |                 |            |                             |              |              |    |
| 1       |           |                 |            |                   |                 |            |                             |              |              |    |
| 2       |           |                 |            |                   |                 |            |                             |              |              |    |
| 3       |           |                 |            |                   |                 |            |                             |              |              |    |
| 4       |           |                 |            |                   |                 |            |                             |              |              |    |
| 5       |           |                 |            |                   |                 |            |                             |              |              |    |
| 6       |           |                 |            |                   |                 |            |                             |              |              |    |
| 7       |           |                 |            |                   |                 |            |                             |              |              |    |
| 8       |           |                 |            |                   |                 |            |                             |              |              |    |
| 9       |           |                 |            |                   |                 |            |                             |              |              |    |
| 10      |           |                 |            |                   |                 |            |                             |              |              |    |
| 11      |           |                 |            |                   |                 |            |                             |              |              |    |
| 12      |           |                 |            |                   |                 |            |                             |              |              |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude.            | Longitude in | Long. by Ob. |    |
|         |           |                 |            |                   |                 |            |                             |              |              |    |

Journal from

towards

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |

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Load Coal

3 tons

lbs.

Weighed on Fairbanks' Scales

From T. S. CORSON, to

*J W Taber*

New Bedford,

2 mo. 26 1880

*F L Parker*

Office and Yard cor. Front and Middle Sts.

weigher

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |

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| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

## towards

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Journal from \_\_\_\_\_ towards \_\_\_\_\_

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. |  | Latitude by Ob. |  | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|--|-----------------|--|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |  |                 |  |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. |  | Latitude by Ob. |  | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|--|-----------------|--|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |  |                 |  |            |                  |              |              |

Journal from ..... towards

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Journal from

towards

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

Journal from \_\_\_\_\_ towards \_\_\_\_\_

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Journal from

towards

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

Journal from \_\_\_\_\_ towards \_\_\_\_\_

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Journal from

towards

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

## towards

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Journal from

towards

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

## Journal from

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Journal from

towards

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. |  | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|--|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |  |                 |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. |  | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|--|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |  |                 |            |                  |              |              |

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| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.<br>Air. Water. | Remarks,     | day of       | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|-----------------------------|--------------|--------------|----|
| 1       |           |                 |            |                   |                 |            |                             |              |              |    |
| 2       |           |                 |            |                   |                 |            |                             |              |              |    |
| 3       |           |                 |            |                   |                 |            |                             |              |              |    |
| 4       |           |                 |            |                   |                 |            |                             |              |              |    |
| 5       |           |                 |            |                   |                 |            |                             |              |              |    |
| 6       |           |                 |            |                   |                 |            |                             |              |              |    |
| 7       |           |                 |            |                   |                 |            |                             |              |              |    |
| 8       |           |                 |            |                   |                 |            |                             |              |              |    |
| 9       |           |                 |            |                   |                 |            |                             |              |              |    |
| 10      |           |                 |            |                   |                 |            |                             |              |              |    |
| 11      |           |                 |            |                   |                 |            |                             |              |              |    |
| 12      |           |                 |            |                   |                 |            |                             |              |              |    |
| 1       |           |                 |            |                   |                 |            |                             |              |              |    |
| 2       |           |                 |            |                   |                 |            |                             |              |              |    |
| 3       |           |                 |            |                   |                 |            |                             |              |              |    |
| 4       |           |                 |            |                   |                 |            |                             |              |              |    |
| 5       |           |                 |            |                   |                 |            |                             |              |              |    |
| 6       |           |                 |            |                   |                 |            |                             |              |              |    |
| 7       |           |                 |            |                   |                 |            |                             |              |              |    |
| 8       |           |                 |            |                   |                 |            |                             |              |              |    |
| 9       |           |                 |            |                   |                 |            |                             |              |              |    |
| 10      |           |                 |            |                   |                 |            |                             |              |              |    |
| 11      |           |                 |            |                   |                 |            |                             |              |              |    |
| 12      |           |                 |            |                   |                 |            |                             |              |              |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude.            | Longitude in | Long. by Ob. |    |
|         |           |                 |            |                   |                 |            |                             |              |              |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.<br>Air. Water. | Remarks,     | day of       | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|-----------------------------|--------------|--------------|----|
| 1       |           |                 |            |                   |                 |            |                             |              |              |    |
| 2       |           |                 |            |                   |                 |            |                             |              |              |    |
| 3       |           |                 |            |                   |                 |            |                             |              |              |    |
| 4       |           |                 |            |                   |                 |            |                             |              |              |    |
| 5       |           |                 |            |                   |                 |            |                             |              |              |    |
| 6       |           |                 |            |                   |                 |            |                             |              |              |    |
| 7       |           |                 |            |                   |                 |            |                             |              |              |    |
| 8       |           |                 |            |                   |                 |            |                             |              |              |    |
| 9       |           |                 |            |                   |                 |            |                             |              |              |    |
| 10      |           |                 |            |                   |                 |            |                             |              |              |    |
| 11      |           |                 |            |                   |                 |            |                             |              |              |    |
| 12      |           |                 |            |                   |                 |            |                             |              |              |    |
| 1       |           |                 |            |                   |                 |            |                             |              |              |    |
| 2       |           |                 |            |                   |                 |            |                             |              |              |    |
| 3       |           |                 |            |                   |                 |            |                             |              |              |    |
| 4       |           |                 |            |                   |                 |            |                             |              |              |    |
| 5       |           |                 |            |                   |                 |            |                             |              |              |    |
| 6       |           |                 |            |                   |                 |            |                             |              |              |    |
| 7       |           |                 |            |                   |                 |            |                             |              |              |    |
| 8       |           |                 |            |                   |                 |            |                             |              |              |    |
| 9       |           |                 |            |                   |                 |            |                             |              |              |    |
| 10      |           |                 |            |                   |                 |            |                             |              |              |    |
| 11      |           |                 |            |                   |                 |            |                             |              |              |    |
| 12      |           |                 |            |                   |                 |            |                             |              |              |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude.            | Longitude in | Long. by Ob. |    |
|         |           |                 |            |                   |                 |            |                             |              |              |    |

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| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

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| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

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| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

## towards

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Journal from

towards

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. |  | Latitude by Ob. |  | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|--|-----------------|--|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |  |                 |  |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. |  | Latitude by Ob. |  | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|--|-----------------|--|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |  |                 |  |            |                  |              |              |

Journal from

towards

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

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towards

| Hours   | KNOTS     | Half<br>Knots   | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

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towards

| Hours   | KNOTS     | Half<br>Knots   | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,    | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|-------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |             |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation  | Diff. Longitude. | Longitude in | Long. by Ob |        |    |
|         |           |                 |            |                   |                 |            |                  |              |             |        |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

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| Hours   | KNOTS.    | Half<br>Knots   | COURSES.   | WINDS.            | Leeway.         | Barometer. |                  | Thermometer. |             | Remarks, | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|-------------|----------|--------|----|
|         |           |                 |            |                   |                 |            |                  | Air.         | Water.      |          |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |             |          |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob |          |        |    |
|         |           |                 |            |                   |                 |            |                  |              |             |          |        |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. |                  | Thermometer. |              | Remarks, | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|----------|--------|----|
|         |           |                 |            |                   |                 |            |                  | Air.         | Water.       |          |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |          |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |          |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |          |        |    |

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| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours. | KNOTS | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|-------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |       |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |       |                |          |        |         |            |              |        |          |        |    |
| 2      |       |                |          |        |         |            |              |        |          |        |    |
| 3      |       |                |          |        |         |            |              |        |          |        |    |
| 4      |       |                |          |        |         |            |              |        |          |        |    |
| 5      |       |                |          |        |         |            |              |        |          |        |    |
| 6      |       |                |          |        |         |            |              |        |          |        |    |
| 7      |       |                |          |        |         |            |              |        |          |        |    |
| 8      |       |                |          |        |         |            |              |        |          |        |    |
| 9      |       |                |          |        |         |            |              |        |          |        |    |
| 10     |       |                |          |        |         |            |              |        |          |        |    |
| 11     |       |                |          |        |         |            |              |        |          |        |    |
| 12     |       |                |          |        |         |            |              |        |          |        |    |
| 1      |       |                |          |        |         |            |              |        |          |        |    |
| 2      |       |                |          |        |         |            |              |        |          |        |    |
| 3      |       |                |          |        |         |            |              |        |          |        |    |
| 4      |       |                |          |        |         |            |              |        |          |        |    |
| 5      |       |                |          |        |         |            |              |        |          |        |    |
| 6      |       |                |          |        |         |            |              |        |          |        |    |
| 7      |       |                |          |        |         |            |              |        |          |        |    |
| 8      |       |                |          |        |         |            |              |        |          |        |    |
| 9      |       |                |          |        |         |            |              |        |          |        |    |
| 10     |       |                |          |        |         |            |              |        |          |        |    |
| 11     |       |                |          |        |         |            |              |        |          |        |    |
| 12     |       |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

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| Hours   | KNOTS     | Half<br>Knots   | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

Journal from

towards

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|--------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |        |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |        |            |              |        |          |        |    |
| 2     |       |               |          |        |        |            |              |        |          |        |    |
| 3     |       |               |          |        |        |            |              |        |          |        |    |
| 4     |       |               |          |        |        |            |              |        |          |        |    |
| 5     |       |               |          |        |        |            |              |        |          |        |    |
| 6     |       |               |          |        |        |            |              |        |          |        |    |
| 7     |       |               |          |        |        |            |              |        |          |        |    |
| 8     |       |               |          |        |        |            |              |        |          |        |    |
| 9     |       |               |          |        |        |            |              |        |          |        |    |
| 10    |       |               |          |        |        |            |              |        |          |        |    |
| 11    |       |               |          |        |        |            |              |        |          |        |    |
| 12    |       |               |          |        |        |            |              |        |          |        |    |
| 1     |       |               |          |        |        |            |              |        |          |        |    |
| 2     |       |               |          |        |        |            |              |        |          |        |    |
| 3     |       |               |          |        |        |            |              |        |          |        |    |
| 4     |       |               |          |        |        |            |              |        |          |        |    |
| 5     |       |               |          |        |        |            |              |        |          |        |    |
| 6     |       |               |          |        |        |            |              |        |          |        |    |
| 7     |       |               |          |        |        |            |              |        |          |        |    |
| 8     |       |               |          |        |        |            |              |        |          |        |    |
| 9     |       |               |          |        |        |            |              |        |          |        |    |
| 10    |       |               |          |        |        |            |              |        |          |        |    |
| 11    |       |               |          |        |        |            |              |        |          |        |    |
| 12    |       |               |          |        |        |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation | Diff. Longitude. | Longitude in | Long. by Ob |
|---------|-----------|-----------------|------------|-------------------|-----------------|-----------|------------------|--------------|-------------|
|         |           |                 |            |                   |                 |           |                  |              |             |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

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towards

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

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| Hours   | KNOTS.    | Half<br>Knots   | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,    | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|-------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |             |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation  | Diff. Longitude. | Longitude in | Long. by Ob |        |    |
|         |           |                 |            |                   |                 |            |                  |              |             |        |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

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towards

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|-------------|
|         |           |                 |            |                   |                 |            |                  |              |             |
|         |           |                 |            |                   |                 |            |                  |              |             |

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation | Diff. Longitude. | Longitude in | Long. by Ob |
|---------|-----------|-----------------|------------|-------------------|-----------------|-----------|------------------|--------------|-------------|
|         |           |                 |            |                   |                 |           |                  |              |             |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer.<br>Air. Water. | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|-----------------------------|----------|--------|----|
| 1     |       |               |          |        |         |            |                             |          |        |    |
| 2     |       |               |          |        |         |            |                             |          |        |    |
| 3     |       |               |          |        |         |            |                             |          |        |    |
| 4     |       |               |          |        |         |            |                             |          |        |    |
| 5     |       |               |          |        |         |            |                             |          |        |    |
| 6     |       |               |          |        |         |            |                             |          |        |    |
| 7     |       |               |          |        |         |            |                             |          |        |    |
| 8     |       |               |          |        |         |            |                             |          |        |    |
| 9     |       |               |          |        |         |            |                             |          |        |    |
| 10    |       |               |          |        |         |            |                             |          |        |    |
| 11    |       |               |          |        |         |            |                             |          |        |    |
| 12    |       |               |          |        |         |            |                             |          |        |    |
| 1     |       |               |          |        |         |            |                             |          |        |    |
| 2     |       |               |          |        |         |            |                             |          |        |    |
| 3     |       |               |          |        |         |            |                             |          |        |    |
| 4     |       |               |          |        |         |            |                             |          |        |    |
| 5     |       |               |          |        |         |            |                             |          |        |    |
| 6     |       |               |          |        |         |            |                             |          |        |    |
| 7     |       |               |          |        |         |            |                             |          |        |    |
| 8     |       |               |          |        |         |            |                             |          |        |    |
| 9     |       |               |          |        |         |            |                             |          |        |    |
| 10    |       |               |          |        |         |            |                             |          |        |    |
| 11    |       |               |          |        |         |            |                             |          |        |    |
| 12    |       |               |          |        |         |            |                             |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer.<br>Air. Water. | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|-----------------------------|----------|--------|----|
| 1      |        |                |          |        |         |            |                             |          |        |    |
| 2      |        |                |          |        |         |            |                             |          |        |    |
| 3      |        |                |          |        |         |            |                             |          |        |    |
| 4      |        |                |          |        |         |            |                             |          |        |    |
| 5      |        |                |          |        |         |            |                             |          |        |    |
| 6      |        |                |          |        |         |            |                             |          |        |    |
| 7      |        |                |          |        |         |            |                             |          |        |    |
| 8      |        |                |          |        |         |            |                             |          |        |    |
| 9      |        |                |          |        |         |            |                             |          |        |    |
| 10     |        |                |          |        |         |            |                             |          |        |    |
| 11     |        |                |          |        |         |            |                             |          |        |    |
| 12     |        |                |          |        |         |            |                             |          |        |    |
| 1      |        |                |          |        |         |            |                             |          |        |    |
| 2      |        |                |          |        |         |            |                             |          |        |    |
| 3      |        |                |          |        |         |            |                             |          |        |    |
| 4      |        |                |          |        |         |            |                             |          |        |    |
| 5      |        |                |          |        |         |            |                             |          |        |    |
| 6      |        |                |          |        |         |            |                             |          |        |    |
| 7      |        |                |          |        |         |            |                             |          |        |    |
| 8      |        |                |          |        |         |            |                             |          |        |    |
| 9      |        |                |          |        |         |            |                             |          |        |    |
| 10     |        |                |          |        |         |            |                             |          |        |    |
| 11     |        |                |          |        |         |            |                             |          |        |    |
| 12     |        |                |          |        |         |            |                             |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours   | KNOTS     | Half<br>Knots   | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,    | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|-------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |             |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob |        |    |
|         |           |                 |            |                   |                 |            |                  |              |             |        |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

Journal from

towards

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. |  | Latitude by Ob. |  | Variation. | Diff. Longitude. | Longitude in | Long. by Ob |
|---------|-----------|-----------------|------------|-------------------|--|-----------------|--|------------|------------------|--------------|-------------|
|         |           |                 |            |                   |  |                 |  |            |                  |              |             |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. |  | Latitude by Ob. |  | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|--|-----------------|--|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |  |                 |  |            |                  |              |              |

Journal from

towards

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|-----------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |           |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours | KNOTS. | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|--------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |        |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |        |               |          |        |         |            |              |        |          |        |    |
| 2     |        |               |          |        |         |            |              |        |          |        |    |
| 3     |        |               |          |        |         |            |              |        |          |        |    |
| 4     |        |               |          |        |         |            |              |        |          |        |    |
| 5     |        |               |          |        |         |            |              |        |          |        |    |
| 6     |        |               |          |        |         |            |              |        |          |        |    |
| 7     |        |               |          |        |         |            |              |        |          |        |    |
| 8     |        |               |          |        |         |            |              |        |          |        |    |
| 9     |        |               |          |        |         |            |              |        |          |        |    |
| 10    |        |               |          |        |         |            |              |        |          |        |    |
| 11    |        |               |          |        |         |            |              |        |          |        |    |
| 12    |        |               |          |        |         |            |              |        |          |        |    |
| 1     |        |               |          |        |         |            |              |        |          |        |    |
| 2     |        |               |          |        |         |            |              |        |          |        |    |
| 3     |        |               |          |        |         |            |              |        |          |        |    |
| 4     |        |               |          |        |         |            |              |        |          |        |    |
| 5     |        |               |          |        |         |            |              |        |          |        |    |
| 6     |        |               |          |        |         |            |              |        |          |        |    |
| 7     |        |               |          |        |         |            |              |        |          |        |    |
| 8     |        |               |          |        |         |            |              |        |          |        |    |
| 9     |        |               |          |        |         |            |              |        |          |        |    |
| 10    |        |               |          |        |         |            |              |        |          |        |    |
| 11    |        |               |          |        |         |            |              |        |          |        |    |
| 12    |        |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. |  | Latitude by Ob. |  | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|--|-----------------|--|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |  |                 |  |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. |  | Latitude by Ob. |  | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|--|-----------------|--|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |  |                 |  |            |                  |              |              |

## towards

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Journal from

towards

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|-------------|
|         |           |                 |            |                   |                 |            |                  |              |             |
|         |           |                 |            |                   |                 |            |                  |              |             |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|-------------|
|         |           |                 |            |                   |                 |            |                  |              |             |

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|-------------|
|         |           |                 |            |                   |                 |            |                  |              |             |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours   | KNOTS.    | Half<br>Knots   | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.<br>Air. Water. | Remarks,     | day of      | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|-----------------------------|--------------|-------------|----|
| 1       |           |                 |            |                   |                 |            |                             |              |             |    |
| 2       |           |                 |            |                   |                 |            |                             |              |             |    |
| 3       |           |                 |            |                   |                 |            |                             |              |             |    |
| 4       |           |                 |            |                   |                 |            |                             |              |             |    |
| 5       |           |                 |            |                   |                 |            |                             |              |             |    |
| 6       |           |                 |            |                   |                 |            |                             |              |             |    |
| 7       |           |                 |            |                   |                 |            |                             |              |             |    |
| 8       |           |                 |            |                   |                 |            |                             |              |             |    |
| 9       |           |                 |            |                   |                 |            |                             |              |             |    |
| 10      |           |                 |            |                   |                 |            |                             |              |             |    |
| 11      |           |                 |            |                   |                 |            |                             |              |             |    |
| 12      |           |                 |            |                   |                 |            |                             |              |             |    |
| 1       |           |                 |            |                   |                 |            |                             |              |             |    |
| 2       |           |                 |            |                   |                 |            |                             |              |             |    |
| 3       |           |                 |            |                   |                 |            |                             |              |             |    |
| 4       |           |                 |            |                   |                 |            |                             |              |             |    |
| 5       |           |                 |            |                   |                 |            |                             |              |             |    |
| 6       |           |                 |            |                   |                 |            |                             |              |             |    |
| 7       |           |                 |            |                   |                 |            |                             |              |             |    |
| 8       |           |                 |            |                   |                 |            |                             |              |             |    |
| 9       |           |                 |            |                   |                 |            |                             |              |             |    |
| 10      |           |                 |            |                   |                 |            |                             |              |             |    |
| 11      |           |                 |            |                   |                 |            |                             |              |             |    |
| 12      |           |                 |            |                   |                 |            |                             |              |             |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation  | Diff. Longitude.            | Longitude in | Long. by Ob |    |
|         |           |                 |            |                   |                 |            |                             |              |             |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.<br>Air. Water. | Remarks,     | day of       | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|-----------------------------|--------------|--------------|----|
| 1       |           |                 |            |                   |                 |            |                             |              |              |    |
| 2       |           |                 |            |                   |                 |            |                             |              |              |    |
| 3       |           |                 |            |                   |                 |            |                             |              |              |    |
| 4       |           |                 |            |                   |                 |            |                             |              |              |    |
| 5       |           |                 |            |                   |                 |            |                             |              |              |    |
| 6       |           |                 |            |                   |                 |            |                             |              |              |    |
| 7       |           |                 |            |                   |                 |            |                             |              |              |    |
| 8       |           |                 |            |                   |                 |            |                             |              |              |    |
| 9       |           |                 |            |                   |                 |            |                             |              |              |    |
| 10      |           |                 |            |                   |                 |            |                             |              |              |    |
| 11      |           |                 |            |                   |                 |            |                             |              |              |    |
| 12      |           |                 |            |                   |                 |            |                             |              |              |    |
| 1       |           |                 |            |                   |                 |            |                             |              |              |    |
| 2       |           |                 |            |                   |                 |            |                             |              |              |    |
| 3       |           |                 |            |                   |                 |            |                             |              |              |    |
| 4       |           |                 |            |                   |                 |            |                             |              |              |    |
| 5       |           |                 |            |                   |                 |            |                             |              |              |    |
| 6       |           |                 |            |                   |                 |            |                             |              |              |    |
| 7       |           |                 |            |                   |                 |            |                             |              |              |    |
| 8       |           |                 |            |                   |                 |            |                             |              |              |    |
| 9       |           |                 |            |                   |                 |            |                             |              |              |    |
| 10      |           |                 |            |                   |                 |            |                             |              |              |    |
| 11      |           |                 |            |                   |                 |            |                             |              |              |    |
| 12      |           |                 |            |                   |                 |            |                             |              |              |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude.            | Longitude in | Long. by Ob. |    |
|         |           |                 |            |                   |                 |            |                             |              |              |    |

Journal from

towards

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours   | KNOTS.    | Half<br>Knots   | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,    | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|-------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |             |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation  | Diff. Longitude. | Longitude in | Long. by Ob |        |    |
|         |           |                 |            |                   |                 |            |                  |              |             |        |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

Journal from \_\_\_\_\_ towards \_\_\_\_\_

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|-------------|
|         |           |                 |            |                   |                 |            |                  |              |             |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|-------------|
|         |           |                 |            |                   |                 |            |                  |              |             |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours | KNOTS. | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|--------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |        |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |        |               |          |        |         |            |              |        |          |        |    |
| 2     |        |               |          |        |         |            |              |        |          |        |    |
| 3     |        |               |          |        |         |            |              |        |          |        |    |
| 4     |        |               |          |        |         |            |              |        |          |        |    |
| 5     |        |               |          |        |         |            |              |        |          |        |    |
| 6     |        |               |          |        |         |            |              |        |          |        |    |
| 7     |        |               |          |        |         |            |              |        |          |        |    |
| 8     |        |               |          |        |         |            |              |        |          |        |    |
| 9     |        |               |          |        |         |            |              |        |          |        |    |
| 10    |        |               |          |        |         |            |              |        |          |        |    |
| 11    |        |               |          |        |         |            |              |        |          |        |    |
| 12    |        |               |          |        |         |            |              |        |          |        |    |
| 1     |        |               |          |        |         |            |              |        |          |        |    |
| 2     |        |               |          |        |         |            |              |        |          |        |    |
| 3     |        |               |          |        |         |            |              |        |          |        |    |
| 4     |        |               |          |        |         |            |              |        |          |        |    |
| 5     |        |               |          |        |         |            |              |        |          |        |    |
| 6     |        |               |          |        |         |            |              |        |          |        |    |
| 7     |        |               |          |        |         |            |              |        |          |        |    |
| 8     |        |               |          |        |         |            |              |        |          |        |    |
| 9     |        |               |          |        |         |            |              |        |          |        |    |
| 10    |        |               |          |        |         |            |              |        |          |        |    |
| 11    |        |               |          |        |         |            |              |        |          |        |    |
| 12    |        |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|-------------|
|         |           |                 |            |                   |                 |            |                  |              |             |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|-------------|
|         |           |                 |            |                   |                 |            |                  |              |             |

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

## towards

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Journal from \_\_\_\_\_ towards \_\_\_\_\_

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Journal from

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| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

towards

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|--------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |        |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |        |            |              |        |          |        |    |
| 2     |       |               |          |        |        |            |              |        |          |        |    |
| 3     |       |               |          |        |        |            |              |        |          |        |    |
| 4     |       |               |          |        |        |            |              |        |          |        |    |
| 5     |       |               |          |        |        |            |              |        |          |        |    |
| 6     |       |               |          |        |        |            |              |        |          |        |    |
| 7     |       |               |          |        |        |            |              |        |          |        |    |
| 8     |       |               |          |        |        |            |              |        |          |        |    |
| 9     |       |               |          |        |        |            |              |        |          |        |    |
| 10    |       |               |          |        |        |            |              |        |          |        |    |
| 11    |       |               |          |        |        |            |              |        |          |        |    |
| 12    |       |               |          |        |        |            |              |        |          |        |    |
| 1     |       |               |          |        |        |            |              |        |          |        |    |
| 2     |       |               |          |        |        |            |              |        |          |        |    |
| 3     |       |               |          |        |        |            |              |        |          |        |    |
| 4     |       |               |          |        |        |            |              |        |          |        |    |
| 5     |       |               |          |        |        |            |              |        |          |        |    |
| 6     |       |               |          |        |        |            |              |        |          |        |    |
| 7     |       |               |          |        |        |            |              |        |          |        |    |
| 8     |       |               |          |        |        |            |              |        |          |        |    |
| 9     |       |               |          |        |        |            |              |        |          |        |    |
| 10    |       |               |          |        |        |            |              |        |          |        |    |
| 11    |       |               |          |        |        |            |              |        |          |        |    |
| 12    |       |               |          |        |        |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation | Diff. Longitude | Longitude in | Long. by Ob |
|---------|-----------|-----------------|------------|-------------------|-----------------|-----------|-----------------|--------------|-------------|
|         |           |                 |            |                   |                 |           |                 |              |             |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

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| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|-----------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                 |              |              |
|         |           |                 |            |                   |                 |            |                 |              |              |

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| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |
| 1     |       |               |          |        |         |            |              |        |          |        |    |
| 2     |       |               |          |        |         |            |              |        |          |        |    |
| 3     |       |               |          |        |         |            |              |        |          |        |    |
| 4     |       |               |          |        |         |            |              |        |          |        |    |
| 5     |       |               |          |        |         |            |              |        |          |        |    |
| 6     |       |               |          |        |         |            |              |        |          |        |    |
| 7     |       |               |          |        |         |            |              |        |          |        |    |
| 8     |       |               |          |        |         |            |              |        |          |        |    |
| 9     |       |               |          |        |         |            |              |        |          |        |    |
| 10    |       |               |          |        |         |            |              |        |          |        |    |
| 11    |       |               |          |        |         |            |              |        |          |        |    |
| 12    |       |               |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|        |        |                |          |        |         |            | Air.         | Water. |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |
| 1      |        |                |          |        |         |            |              |        |          |        |    |
| 2      |        |                |          |        |         |            |              |        |          |        |    |
| 3      |        |                |          |        |         |            |              |        |          |        |    |
| 4      |        |                |          |        |         |            |              |        |          |        |    |
| 5      |        |                |          |        |         |            |              |        |          |        |    |
| 6      |        |                |          |        |         |            |              |        |          |        |    |
| 7      |        |                |          |        |         |            |              |        |          |        |    |
| 8      |        |                |          |        |         |            |              |        |          |        |    |
| 9      |        |                |          |        |         |            |              |        |          |        |    |
| 10     |        |                |          |        |         |            |              |        |          |        |    |
| 11     |        |                |          |        |         |            |              |        |          |        |    |
| 12     |        |                |          |        |         |            |              |        |          |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |                 |            |                  |              |              |

Journal from

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| Hours   | KNOTS     | Half<br>Knots   | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,     | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|--------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |              |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |        |    |
|         |           |                 |            |                   |                 |            |                  |              |              |        |    |

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Journal from

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| Hours   | KNOTS     | Half<br>Knots   | COURSES.   | WINDS.            | Leeway. | Barometer.      | Thermometer. |           | Remarks,        | day of       | 18          |
|---------|-----------|-----------------|------------|-------------------|---------|-----------------|--------------|-----------|-----------------|--------------|-------------|
|         |           |                 |            |                   |         |                 | Air.         | Water.    |                 |              |             |
| 1       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 2       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 3       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 4       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 5       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 6       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 7       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 8       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 9       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 10      |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 11      |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 12      |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 1       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 2       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 3       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 4       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 5       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 6       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 7       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 8       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 9       |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 10      |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 11      |           |                 |            |                   |         |                 |              |           |                 |              |             |
| 12      |           |                 |            |                   |         |                 |              |           |                 |              |             |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. |         | Latitude by Ob. |              | Variation | Diff. Longitude | Longitude in | Long. by Ob |
|         |           |                 |            |                   |         |                 |              |           |                 |              |             |

| Hours   | KNOTS     | Half<br>Knots   | COURSES.   | WINDS.            | Leeway. | Barometer.      | Thermometer. |            | Remarks,         | day of       | 18           |
|---------|-----------|-----------------|------------|-------------------|---------|-----------------|--------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                   |         |                 | Air.         | Water.     |                  |              |              |
| 1       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 2       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 3       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 4       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 5       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 6       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 7       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 8       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 9       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 10      |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 11      |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 12      |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 1       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 2       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 3       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 4       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 5       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 6       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 7       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 8       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 9       |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 10      |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 11      |           |                 |            |                   |         |                 |              |            |                  |              |              |
| 12      |           |                 |            |                   |         |                 |              |            |                  |              |              |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. |         | Latitude by Ob. |              | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|         |           |                 |            |                   |         |                 |              |            |                  |              |              |

Journal from

towards

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks,                                                                                                                                                                                                                                                                                                                                             | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 1     |       |               |          |        |         |            |              |        | To prevent Mildew on Preserves -<br>take the white of an Egg and wet slightly both sides<br>of a piece of letter paper sufficiently large to cover<br>over the tops of the Preserves snugly, they may<br>be kept free from mould and spoiling<br>two years.<br>A cup of water in the oven while Baking<br>will prevent Meats, Bread &c, from Burning |        |    |
| 2     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 3     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 4     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 5     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 6     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 7     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 8     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 9     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 10    |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 11    |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 12    |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 1     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 2     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 3     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 4     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 5     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 6     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 7     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 8     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 9     |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 10    |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 11    |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |
| 12    |       |               |          |        |         |            |              |        |                                                                                                                                                                                                                                                                                                                                                      |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|-------------|
|         |           |                 |            |                   |                 |            |                  |              |             |

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks, | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |          |        |    |

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12

Journal from \_\_\_\_\_ towards \_\_\_\_\_

| Hours   | KNOTS     | Half<br>Knots   | COURSES.   | WINDS.            | Leeway          | Barometer. | Thermometer.     |              | Remarks,    | day of | 18 |
|---------|-----------|-----------------|------------|-------------------|-----------------|------------|------------------|--------------|-------------|--------|----|
|         |           |                 |            |                   |                 |            | Air.             | Water.       |             |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 1       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 2       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 3       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 4       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 5       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 6       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 7       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 8       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 9       |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 10      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 11      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| 12      |           |                 |            |                   |                 |            |                  |              |             |        |    |
| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D. R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob |        |    |
|         |           |                 |            |                   |                 |            |                  |              |             |        |    |
| Hours.  | KNOTS.    | Half<br>Knots.  | COURSES.   | WINDS.            | Leeway.         | Barometer. | Thermometer.     |              | Remarks,    | day of | 18 |
|         |           |                 |            |                   |                 |            | Air.             | Water.       |             |        |    |

Journal from *The Uncertainty* towards *Marriage*.

| Hours | KNOTS | Half<br>Knots | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer. |        | Remarks,                                     | day of | 18 |
|-------|-------|---------------|----------|--------|---------|------------|--------------|--------|----------------------------------------------|--------|----|
|       |       |               |          |        |         |            | Air.         | Water. |                                              |        |    |
| 1     |       |               |          |        |         |            |              |        | goods.                                       |        |    |
| 2     |       |               |          |        |         |            |              |        | Old Dobbs was rich in worldly goods.         |        |    |
| 3     |       |               |          |        |         |            |              |        | and just the age to marry.                   |        |    |
| 4     |       |               |          |        |         |            |              |        | so he said to himself in his fitful moods.   |        |    |
| 5     |       |               |          |        |         |            |              |        | I'll not by the wayside tarry.               |        |    |
| 6     |       |               |          |        |         |            |              |        | Miss Turle was Beautiful Sweet Eighteen.     |        |    |
| 7     |       |               |          |        |         |            |              |        | And cast a longing eye                       |        |    |
| 8     |       |               |          |        |         |            |              |        | on Dobbs when she saw the dollars gleam.     |        |    |
| 9     |       |               |          |        |         |            |              |        | And thought that even he'd die.              |        |    |
| 10    |       |               |          |        |         |            |              |        |                                              |        |    |
| 11    |       |               |          |        |         |            |              |        | Now Dobbs was young in Health you see,       |        |    |
| 12    |       |               |          |        |         |            |              |        | His blood with Vigor flowed.                 |        |    |
| 1     |       |               |          |        |         |            |              |        | Though treading the corner of sweet fifty.   |        |    |
| 2     |       |               |          |        |         |            |              |        | There was life beneath his waistcoat stowed. |        |    |
| 3     |       |               |          |        |         |            |              |        |                                              |        |    |
| 4     |       |               |          |        |         |            |              |        | When Dobbs to Turle proposed one day,        |        |    |
| 5     |       |               |          |        |         |            |              |        | she gobbled him a noble quirk.               |        |    |
| 6     |       |               |          |        |         |            |              |        | And thought to herself, He's old and gray,   |        |    |
| 7     |       |               |          |        |         |            |              |        | so I've got his money stick."                |        |    |
| 8     |       |               |          |        |         |            |              |        |                                              |        |    |
| 9     |       |               |          |        |         |            |              |        | But years passed by with Dobbs alive.        |        |    |
| 10    |       |               |          |        |         |            |              |        | No notion this life to flee.                 |        |    |
| 11    |       |               |          |        |         |            |              |        | He was happy and fat at sixty five.          |        |    |
| 12    |       |               |          |        |         |            |              |        | While his wife was thirty three.             |        |    |

| Course. | Distance. | Diff. Latitude. | Departure. | Latitude by D.R. | Latitude by Ob. | Variation. | Diff. Longitude. | Longitude in | Long. by Ob. |
|---------|-----------|-----------------|------------|------------------|-----------------|------------|------------------|--------------|--------------|
|         |           |                 |            |                  |                 |            |                  |              |              |

*poor Mrs. Dobbs grew thin and pale  
And wandered here and there  
While Dobbs good natured fat and hale  
was dyeing his lovely hair.*

| Hours. | KNOTS. | Half<br>Knots. | COURSES. | WINDS. | Leeway. | Barometer. | Thermometer.<br>Air. Water. | Remarks,                                    | day of | 18 |
|--------|--------|----------------|----------|--------|---------|------------|-----------------------------|---------------------------------------------|--------|----|
| 1      |        |                |          |        |         |            |                             | Time passing on "Mid hopes and tears.       |        |    |
| 2      |        |                |          |        |         |            |                             | Finds Dobbs with Loy Platte.                |        |    |
| 3      |        |                |          |        |         |            |                             | To think that he's but eighty years.        |        |    |
| 4      |        |                |          |        |         |            |                             | While his wife is forty eight.              |        |    |
| 5      |        |                |          |        |         |            |                             |                                             |        |    |
| 6      |        |                |          |        |         |            |                             | The marvellous lines adorn her face.        |        |    |
| 7      |        |                |          |        |         |            |                             | Grows deeper with the thought.              |        |    |
| 8      |        |                |          |        |         |            |                             | That Dobbs will still be in his race.       |        |    |
| 9      |        |                |          |        |         |            |                             | When she on earth is no more.               |        |    |
| 10     |        |                |          |        |         |            |                             |                                             |        |    |
| 11     |        |                |          |        |         |            |                             | Eighteen more years the Dobbs survive.      |        |    |
| 12     |        |                |          |        |         |            |                             | In calm sweet unity                         |        |    |
| 1      |        |                |          |        |         |            |                             | Old Dobbs is now just ninety five.          |        |    |
| 2      |        |                |          |        |         |            |                             | And his wife is sixty three,                |        |    |
| 3      |        |                |          |        |         |            |                             |                                             |        |    |
| 4      |        |                |          |        |         |            |                             | Five more short years will quickly round.   |        |    |
| 5      |        |                |          |        |         |            |                             | And find old Dobbs in weeds.                |        |    |
| 6      |        |                |          |        |         |            |                             | He has planted his wife deep in the ground. |        |    |
| 7      |        |                |          |        |         |            |                             | And D. monument tells her needs.            |        |    |
| 8      |        |                |          |        |         |            |                             |                                             |        |    |
| 9      |        |                |          |        |         |            |                             | Ten more swift years passed by and then.    |        |    |
| 10     |        |                |          |        |         |            |                             | Old Dobbs given sick of life.               |        |    |
| 11     |        |                |          |        |         |            |                             | Departed at five aore and ten.              |        |    |
| 12     |        |                |          |        |         |            |                             | To join his faithful wife.                  |        |    |

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